

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).
2. (currently amended): ~~The method claimed in claim 1~~ A method of transferring information signals between two separate send/receive interfaces which are part of the same communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, which method:
 - distinguishes between user data and signaling data,
 - applies to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applies to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation/burst demultiplexing/burst decomposition/decryption, and, where ~~applicable/data~~ applicable, data de-interleaving/data channel decoding/source decoding, and

ii) source coding/channel coding/coded data interleaving/encryption, and where ~~applicable/burst~~ applicable, burst composition/burst multiplexing/modulation

then only the following restricted processing sequences iii) and ~~iii)-iv)~~ iv) are applied to said user data by the interfaces concerned:

iii) demodulation/burst demultiplexing/burst decomposition/decryption, where applicable, and

~~iii)-iv)~~ iv) encryption, and, where ~~applicable/burst~~ applicable, burst composition/burst multiplexing/modulation.

3. (original): The method claimed in claim 2 wherein said restricted processing sequences are applied to said user data as a function of an activated or de-activated state of a communication function requiring specific additional processing of reproduced or reconstituted user data.

4. (currently amended): The method claimed in claim ~~1-2~~, wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

5. (currently amended): The method claimed in claim ~~1-2~~, wherein said two interfaces are radio interfaces which are part of a the communication device which also ~~including~~ comprises a controller of sender-receiver centers or base stations of a radiocommunication

network including fixed base stations distributed over a given territory and a plurality of mobile stations such as cellular telephones.

6. (canceled).

7. (currently amended): ~~The device claimed in claim 6~~ A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces in accordance with a method of transferring information signals between said two separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, which method:

- distinguishes between user data and signaling data,
- applies to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and

- applies to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation/burst demultiplexing/burst decomposition/decryption, and, where ~~applicable/data~~ applicable, data de-interleaving/data channel decoding/source decoding, and

ii) source coding/channel coding/coded data interleaving/encryption, and, where ~~applicable/burst~~ applicable, burst composition/burst multiplexing/modulation

then only the following restricted processing sequences iii) and ~~iii)~~ iv) are applied to said user data by the interfaces concerned:

iii) demodulation/burst demultiplexing/burst decomposition/decryption, where applicable, and

~~iii)~~ iv) encryption, and, where ~~applicable/burst~~ applicable, burst composition/burst multiplexing/modulation.

8. (original): The device claimed in claim 7 wherein said restricted processing sequences are applied to said user data as a function of an activated or de-activated state of a communication function requiring specific additional processing of reproduced or reconstituted user data.

9. (currently amended): The device claimed in claim ~~6-7~~, wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the

other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

10. (currently amended): The device claimed in claim ~~6~~7, wherein said two interfaces are radio interfaces which are part of a communication device also including a controller of sender-receiver centers or base stations of a radiocommunication network including fixed base stations distributed over a given territory and a plurality of mobile stations such as cellular telephones.

11. (currently amended): The communication device claimed in claim ~~6~~7, wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks.

12. (original): The communication device claimed in claim 11 further including a controller of sender-receiver centers or base stations controlling at least two base stations of a cellular radiocommunication network including fixed base stations distributed over a given territory and a plurality of mobile stations.

13. (original): The communication device claimed in claim 11 constituting a fixed base station of a cordless telephone local area network, wherein one of said interfaces provides the link with said mobile station or stations of said local area network and the other of said interfaces provides the connection to one or more fixed or mobile stations of a cellular telecommunication network.

14. (new): A method of transferring information signals between two separate send/receive interfaces which are part of the same communication device, the method including

processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, which method:

- distinguishes between user data and signaling data,
 - applies to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applies to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,
- wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

15. (new): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces in accordance with a method of transferring information signals between said two

separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, which method:

- distinguishes between user data and signaling data,
 - applies to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applies to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,
- wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

16. (new): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two

interfaces in accordance with a method of transferring information signals between said two separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, which method:

- distinguishes between user data and signaling data,
 - applies to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applies to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,
- wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks, and
- wherein said device comprises a controller of sender-receiver centers or base stations controlling at least two base stations of a cellular radiocommunication network including fixed base stations distributed over a given territory and a plurality of mobile stations.

17. (new): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts

modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces in accordance with a method of transferring information signals between said two separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, which method:

- distinguishes between user data and signaling data,
 - applies to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applies to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,
- wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks, and
- wherein said device comprises a fixed base station of a cordless telephone local area network, wherein one of said interfaces provides the link with said mobile station or stations of said local area network and the other of said interfaces provides the connection to one or more fixed or mobile stations of a cellular telecommunication network.